
LAWRENCE COUNTY

(Lawrence County Water Service Area Map)

- Estimated 1999 population of 15,700--40% on public water
- Estimated 2020 population of 17,800--42% on public water
- 200 miles of water lines, with plans for 25 additional miles
- Estimated funding needs for public water 2000-2005: \$1,300,000
- Estimated funding needs for public water 2006-2020: \$500,000

County had an estimated population of 15,699 (6,177 households) in 1999 with a projected population of 17,800 (7,700 households) in 2020. Public water is provided to about 40 percent of the county's residents. In areas of the county not served by public water, almost all the households rely on private domestic wells. About 185 customers will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LAWRENCE								-
Lawrence Co. W/D	25	184	1,000				300	1,300
Louisa								-
Total	25	184	1,000				300	1,300

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
LAWRENCE								-
Lawrence Co. W/D								-
Louisa				500				500
Total				500				500

PUBLIC WATER SYSTEMS

Lawrence County is served by 8 public or semi-public water systems: 2 municipal, Louisa Water Works and Paintsville Utilities; 3 water districts, Lawrence County Water Board, Big Sandy Water District, Rattlesnake Ridge Water District; and 3 non-community systems.

WATER SERVICE AREAS

LAWRENCE COUNTY

Kentucky

Prepared By:
Water Resource Development Commission

Department for Local Government
1024 Capital Center Drive, Suite 340
Frankfort, Kentucky 40601-8204
502-573-2382 -- 502-573-2939 fax
<http://dlgnt1.state.ky.us/wrdc/>

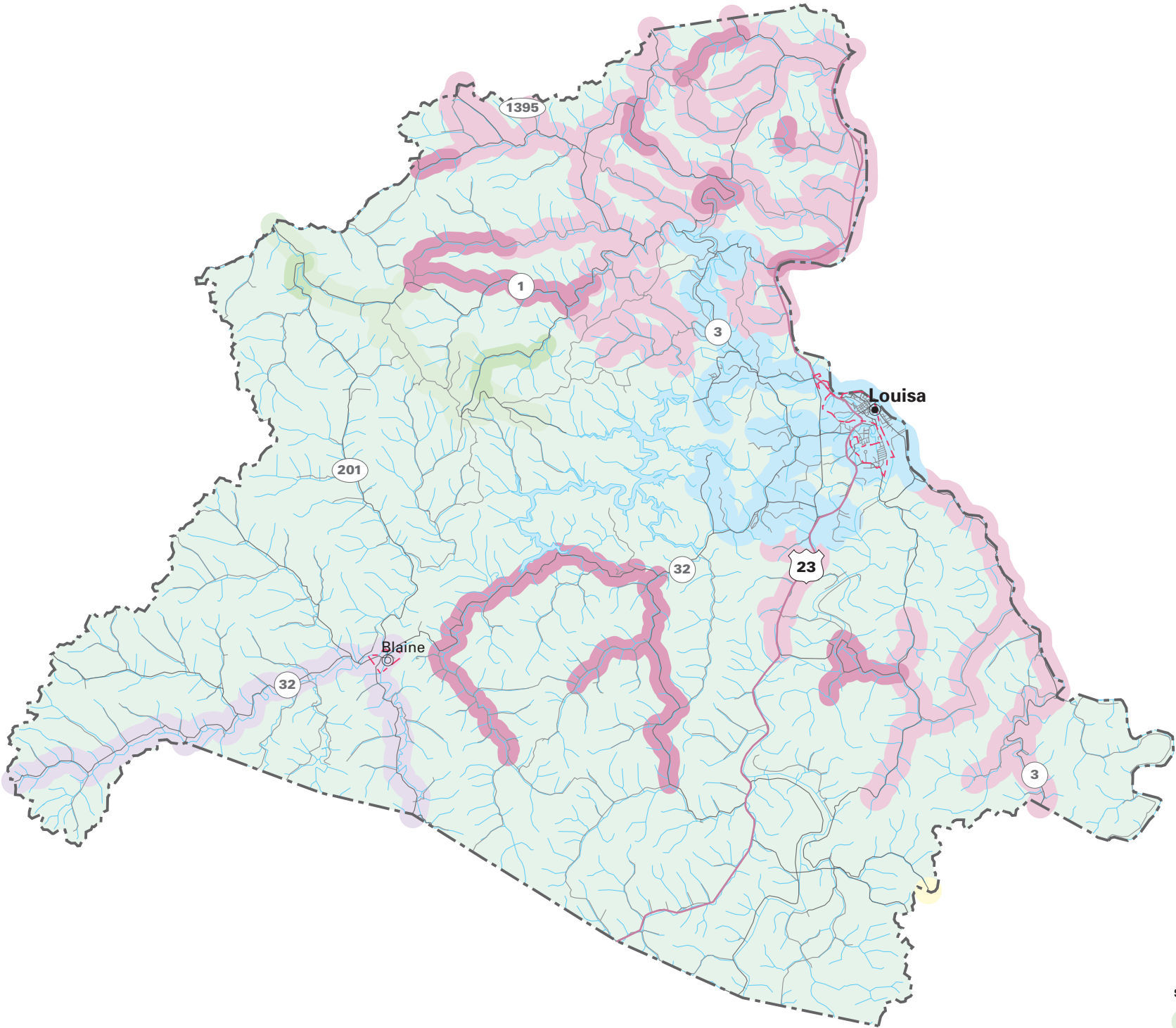
Bob Arnold, Chairman
Lawrence Wetherby, Executive Director

Final GIS & Cartographic Operations By:
Kent Anness & Kim Prough

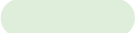
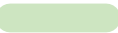


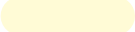

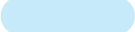



Data Collection & GIS Input By:
Kentucky Area Development Districts



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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		RATTLESNAKE RIDGE WATER DISTRICT
		PAINTSVILLE MUNICIPAL WATER WORKS
		MARTIN COUNTY WATER DISTRICT #2
		LOUISA WATER DEPARTMENT
		BIG SANDY WATER DISTRICT

LAWRENCE COUNTY WATER BOARD

The Lawrence County Water Board serves the south/south-central portion of Lawrence County, Kentucky. The source of Lawrence County Water Board water is the City of Louisa Water Works, which allows Lawrence County a maximum of 5 million gallons per month (or around 166,000 gallons per day). The system has one storage tank with a capacity of 100,000 gallons. Recently, the system completed a "Phase I" project of new lines and has plans for a "Phase II" project which will add 32 miles and around 276 households to the system in the next five years. The cost of the Phase II project will be around 1.9 million dollars.

Currently, the system is undergoing a change of ownership. Shortly, the Big Sandy Water District will take control of Louisa Water and has agreed to continue with the "Phase II" project begun by Lawrence County Water. Future development in the southern portion of the county through such catalysts as a new prison is expected to increase demand for lines in the south/southeast portion of the county not currently receiving service or being planned for service.

LOUISA WATER DEPARTMENT

PWSID: 0640257
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source: LEVISA FORK, BIG SANDY
Purchase Source:
Well Source:
Sells Water to: BIG SANDY WATER DISTRICT
Treatment Plant Capacity (MGD): 1.30
Percent Daily Average Production: 68.00
Total Tank Storage Capacity (gallons): 2,800,000.00
Total Service Connections: 2,100.00
Number of Employees: 8.00
Treatment Operator Class: 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

Another of the five water districts supplying water to Lawrence County, Louisa Water Works primarily furnishes water to the City of Louisa; however, some limited service to areas

directly outside of the city has been provided. In addition, Louisa Water sells water to the Lawrence County Water Board and the Big Sandy Water District.

Louisa Water Works gets its water from the Levisa Fork of the Big Sandy River. On average 670,000 gallons of water are produced per day with a 24 hour rated capacity of 1.3 million gallons. The municipal, community system has storage capacity of 2,806,000 gallons. Moreover, the district employs eight employees with three being employed as certified water treatment operators.

For the most part, Louisa Water customers reside within the City of Louisa with a population of 6,300 being served. In all, there are 2,000 service connections: 1,875 of which are residential users, 165 are commercial, 2 are industrial, and 58 are institutional. Those not on water lines, which are few in the City of Louisa, must have their water hauled or must use wells.

There are no immediate plans for line extensions within the district. The Lawrence County Water Board will service any areas not currently serviced.

OTHER SYSTEMS

CAMP CALEB INC

Camp Caleb Inc is located in Lawrence County. The system serves a population of 25 and has 1 service connection. The private, transient, non-community system has treatment capacity of 20,160 gallons per day. The water source is ground water from wells.

DOCKS PIZZA INC

Docks Pizza Inc is located in Lawrence County. The system serves a population of 60 and has 1 service connection. The private, transient, non-community system has treatment capacity of 12,000 gallons per day. The water source is ground water from wells.

HAPPY MART #23

Happy Mart #23 is located in Lawrence County. The system serves a population of 200 and has 1 service connection. The private, transient, non-community system has treatment capacity of 5,000 gallons per day. The water source is ground water from wells.

PRIVATE DOMESTIC SYSTEMS

About 9,200 people in Lawrence County rely on private domestic wells for their source of water.

Most wells in valley bottoms produce adequate amounts of water for domestic supply. Fewer than half of the wells drilled on hillsides are adequate for a domestic supply. Wells on hilltops and ridges yield smaller quantities of water.

Most of the water from drilled wells is extremely hard and contains noticeable amounts of iron. In the northeast and southeast half of the county, salty water may be found in wells drilled into bedrock less than 100 feet below the level of the principal valley bottoms.

A few springs supply sufficient quantities of water for domestic use. Almost all springs yield less than 5gpm.
